

VII. AVIATION NIGHT VISION GOGGLE MAINTENANCE

1. Administrative Management

a. Standing Operating Procedures

Are Standing Operating Procedures (SOP) established and maintained for current operations? (*AR 750-1, para 3-1d and AR 385-95, para 3-3*) **P / C / NA**

b. Modern Army Recordkeeping System (MARKS)

(1) Is the Modern Army Recordkeeping System (MARKS) used? (*AR 25-400-2, para 1-6a*) **P / C / NA**

(2) Is the information on the file label accurate? (*AR 25-400-2, para 6-2*) **P / C / NA**

(3) Has the Information Manager approved the files? (*AR 25-400-2, para 5-13*) **P / C / NA**

c. Publications Maintenance / Shop Library

(1) Does each shop maintain a complete, up-to-date set of technical publications for all supported aircraft? (*FM 3-04.500, para 8-16*) **P / F / NA**

(2) Are publications filed Alpha Numerically? (*FM 3-04.500, para 8-113 and DA Pam 25-40, para E-13*) **P / F / NA**

(3) Are changes to publications posted correctly? (*DA Pam 25-40, Appendix E*) **P / F / NA**

(4) Does the shop have a technical data familiarization chart or computer printout to ensure maintenance personnel are familiar with publications relevant to their duties? (*FM 3-04.500, para 8-18*) **P / F / NA**

(5) Are technical inspectors checking the charts or printouts during publication review to ensure the following: (*FM 3-04.500, para 8-18*) **P / F / NA**

(a) All publications used by the shop are listed?

(b) All shop personnel listed?

(c) All personnel initialed to indicate their understanding of the publications?

(d) All changes are posted according to DA Pam 25-40?

(6) Have technical inspectors checked the shop library quarterly to ensure the following: (*FM 3-04.500, para 8-111*) **P / F / NA**

(a) Libraries are located conveniently to users?

(b) Required manuals are on hand or on order?

(c) No unnecessary publications are on hand?

- (d) Changes are properly posted and indexes reflect the status of publications on hand?
- (e) No superseded or rescinded manuals are used?
- (f) Classified publications are stored according to AR 380-5?

d. Orders

- (1) Does ANVIS maintainer have appointment orders in memorandum format from the unit Commander? (*GEN-02-ASAM-02 para 8G(C)(4)*) **P / C / NA**
- (2) Are ANVIS maintainers on limited Technical Inspector (TI) orders to clear a “circle red X” or “red X” status on the ANVIS and/or related equipment? (*Updated Guidance Manual, pg 5, and DA Pam 738-751, para 1-9 and para 5-14(5)*) **P / C / NA**

e. Training Documentation

- (1) AVIM: Has the AVIM Commander designated a properly trained and qualified individual in writing to conduct ANVIS maintenance qualification training? (*GEN-02-ASAM-02, para 8G(1)(B)*) **P / C / NA**
- (2) Are ANVIS maintainers issued training memorandum documentation upon completion of initial and sustainment ANVIS maintenance qualification training? (*GEN-02-ASAM-02 para 8G(4)*) **P / C / NA**
- (3) Does the training qualification memorandum issued by the ANVIS trainer have all of the required task information IAW with *GEN-02-ASAM-02*? (*GEN-02-ASAM-02, para 8G(4)*) **P / C / NA**
- (4) Is ANVIS maintenance sustainment training being conducted annually IAW FM 25-100, FM 25-101, and IAW Local SOP? (*GEN-02-ASAM-02, para 8G(4)*) **P / C / NA**
- (5) Has the commander initialed the training memorandum for line to acknowledge receipt of personnel trained as ANVIS maintainers for the unit/organization. (*GEN-02-ASAM-02, para G(4)*) **P / C / NA**

f. Logbook Form and Records

- (1) Are the following forms maintained in the ANVIS logbook? (*Updated Guidance Manual, and DA Pam 738-751, chap 5*)
 - (a) DA Form 2408-5 first vinyl page. **P / C / NA**
 - (b) DA Form 2408-15 second vinyl page. **P / C / NA**
 - (c) DA Form 2408-30 third vinyl page (current closed out form). **P / C / NA**
 - (d) DA Form 2408-30 fourth vinyl page (additional close outs). **P / C / NA**

- (e) DA Form 2407 inside back cover pocket (organization copy). **P / C / NA**
- (f) DA Form 2404 inside back cover pocket of log book **P / C / NA**
- (2) Are the following forms maintained in the ANVIS carrying case? (*Updated Guidance Manual, and DA Pam 738-751, chap 5*)
- (b) DA Form 2408-30 **P / C / NA**
- (3) Is the DA Form 2408-5, Equipment Modification Record, used to document authorized DA modifications (MWO) to the ANVIS? (*DA Pam 738-751, para 5-3, and Updated Guidance Manual, pg 6*) **P / C / NA**
- (4) Is the DA Form 2408-15, Historical Record for Aircraft, used to document the following? (*DA Pam 738-751, 5-4, and Updated Guidance Manual, pg 6*) **P / C / NA**
- (a) One-time inspections, compliance with Safety of Flight (SOF) messages, Safety of Use (SOU) messages, Aviation Safety Action Messages (ASAM), and Technical Bulletins (TB). **P / C / NA**
- (b) Replacement of image intensifiers and new serial numbers, LIF kit installation, new LIF, distortion tests, enhancements to original ANVIS configurations, 25-MM eyepiece assemblies, ANVIS HUD optical unit supports clamps, etc. **P / C / NA**
- (c) ANVIS enhancements such as improved Pivot and Adjustment Shelf (PAS), 25-mm eyepiece lenses, New (anti-wobble) monocular housings, and the installation of ANVIS HUD optical unit support clamps, and the HUD Lanyard. **P / C / NA**
- (5) Are the DA Form 2408-30, ANVIS Inspection and Maintenance Record, used to document the following? (*DA Pam 738-751, para 5-14, and Updated Guidance Manual, pg 8*) **P / C / NA**
- (a) Record faults and document corrective actions taken for deficiencies discovered while performing operator's checks and usage. (*Updated Guidance Manual, pg 8*) **P / C / NA**
- (b) 6-month services and Maintenance Operational Checks (MOCs). **P / C / NA**
- (c) Routine maintenance and / or special inspections, distortions checks, and installation of enhancements. **P / C / NA**
- (d) The next scheduled inspection. **P / C / NA**
- (6) Is the DA Form 2407, Maintenance Request, used to forward the ANVIS system to higher maintenance level for scheduled and unscheduled maintenance? (*Updated Guidance Manual, pg 13*) **P / C / NA**
- (7) Does the logbook have DA Form 2404, and DA Form 2407 completed filled out and maintained until the next six month service is completed? (*Updated Guidance Manual, pg 21, GEN-02-ASAM-02, para 8K(3)*) **P / C / NA**
- (8) Is the DD Form 1577-2, unserviceable (repairable) Tag Material, used to identify unserviceable night vision goggles? (*Updated Guidance Manual, pg 12; and DA Pam 738-751, para 3-26*) **P / C / NA**

(9) Is the DD Form 1574, Serviceable Material Tag, used to identify serviceable ANVIS being returned from support maintenance? (*Updated Guidance Manual, pg 11; and DA Pam 738-751 para 3-22*) **P / C / NA**

(10) Is the DD Form 1576, Test/Modification Tag Material, used by AVIM to identify ANVIS requiring a distortion check? (*Updated Guidance Manual, pg 11; and DA Pam 738-751 para 3-24*) **P / C / NA**

(11) Is all ANVIS enhancement information that is considered to be significant historical data recorded on the DA Form 2408-15, and DA Form 2408-30? (*DA Pam 738-751, 5-4 and 5-14 and, Updated Guidance Manual, pg 6-8*) **P / C / NA**

(12) When distortion check evaluation are completed are both signature of the evaluators annotated on the DA Form 2408-30? (*DA Pam 738-751, para 5-4(3) and Updated Guidance Manual, pg 10*) **P / C / NA**

(13) Has GEN-02ASAM-02 been integrated into the publication library to include forms and records with all the required pen and ink changes? (*GEN-02-ASAM-02, para, 8M12*) **P / C / NA**

(14) Are ANVIS reported using the monthly ground equipment status reporting system? (*AR 700-138, Appendix (B)*) **P / C / NA**

2. Maintenance Procedures

a. Maintenance

(1) Are six month services being accomplished every six months not to exceeding a ten percent plus or minus (18 day) tolerance from the scheduled calendar date? (*TM 1-1500-328-23, para 2-10b(1)*) **P / C / NA**

(2) Are the LIF remaining installed except for cleaning or maintenance of the LIF or objective lenses? (*TM 11-5855-263-10, para 2-10*) **P / C / NA**

(3) Are the goggles properly PMCS IAW TM 11-5855-263-10 prior before flight operations. (*TM 11-5855-263-10, Operator's Checks Table 2-2*) **P / C / NA**

b. Battery

(1) Are only 1.5 volt AA non-rechargeable alkaline and lithium batteries use for ANVIS system? (*GEN-02-ASAM-02, para, 8H(1)*) **P / C / NA**

c. Power Pack Checks

(1) Are ANVIS power packs maintained as follows? (*TM 11-5855-263-23&P, para 2-15*)

(a) Inspected during the conduct of the six month services? **P / C / NA**

(b) Do attached gum labels indicate the next six month service due using calendar dates only? **P / C / NA**

(2) Are power pack cartridge mark as primary and alternate to identify the zero time batteries?
(*TM 11-5855-263-23-10, para 2-5(d) NOTE*) **P / C / NA**

d. Distortion Evaluation

(1) Are distortion evaluations being completed IAW TM 11-5855-263-23&P? **P / C / NA**

(2) Has the unit commander designate individuals in writing to preformed distortion evaluation?
(*TM 11-5855-263-23&P, para 2-10*) **P / C / NA**

e. Test Equipment/ TMDE

(1) Are test sets (TS) TS-4348/UV and TS-3895A/UV calibrated every twelve months; do the test sets have a DA Label 80 attached to the body? (*TM 11-5855-264-14*) **P / C / NA**

(2) Is the TS-3895A/UV is turned in for the required annual optical collimation attachment and diopter scope service? (*TM 11-5855-264-14*) **P / C / NA**

(3) Is the TS-3895A/UV annual optical check, using the collimation attachment and diopter scope, completed; is the inspection documented IAW DA PAM 738-750 and tracked with a DD Form 314? (*TM 11-5855-264-14*) **P / C / NA**

g. Black Spot Check

(1) Are maintainers using the authorized Black Spot Target (BST)? (*TM 11-5855-263-23&P, para 2-9*) **P / C / NA**

(2) Is the BST test fixture manufactured IAW TM 11-5855-263-23&P? (*TM 11-5855-263-23&P, para 2-9*) **P / C / NA**

(3) Is the working distance between the front surface of the objective lens of the ANVIS thirty inches (plus or minus one inch) from the BST? (*TM 11-5855-263-23&P, para 2-9*) **P / C / NA**

(4) Is a dark room available for the test procedure? (*TM 11-5855-263-23&P, para 2-9*) **P / C / NA**

(5) Is an appropriate light source available for the test procedure? (*TM 11-5855-263-23&P, para 2-9*) **P / C / NA**

h. Site and Shelter Requirement

(1) Is the workbench surface area free from chemicals, vapors, and emissions that may damage external parts of the ANVIS? (*TM 11-5855-263-23&P, para 2-5*) **P / C / NA**

(2) Is the work area sheltered from the elements, i.e. rain, dust, etc.? (*TM 11-5855-263-23&P, para 2-5*) **P / C / NA**

(3) Is a dark room or dark work area where all exterior light can be eliminated, available for use? (*TM 11-5855-263-23&P, para 2-5*) **P / C / NA**

(4) Does the room or work area appear dark to the unaided eye after approximately ten minutes of dark adaptation? *(TM 11-5855-263-23&P, para 2-5)* **P / C / NA**

(5) Is a night vision device used to identify and isolate places where light can enter the room? *(TM 11-5855-263-23&P, para 2-5)* **P / C / NA**

(6) Is a flashlight with an ANVIS compatible filter available during the performance of maintenance in a darkened environment? *(TM 11-5855-263-23&P, para 2-9)* **P / C / NA**

I. Special Tools (Manufactured Items) AVIM

(1) Are the proper tools available to perform the maintenance procedures? *(TM 11-5855-263-23&P, Appendix E)* **P / C / NA**

(2) Are the following manufactured items modified IAW Appendix E, Illustrated List of Manufactured Items, TM 11-5855-263-23&P? *(TM 11-5855-263-23&P, Appendix E)*

(a) Black spot test stand, Figure E-1? *(TM 11-5855-263-23&P, Appendix E)* **P / C / NA**

(b) Tube retainer wrench modification, Figure E-2. **P / C / NA**

(c) Screwdriver blade bit modification, Figure E-3. **P / C / NA**

(d) ¼ inch wrench modification (NSN 5120-01-368-1910), Figure E-4. **P / C / NA**

(e) Spanner wrench, NSN 5120-01-175-7134, Figure E-6. **P / C / NA**

REFERENCES:

AR 25-400-2	01 October 01	TB 750-25	03 January 97
AR 385-95	10 December 99	TM 1-1500-328-23	30 July 99
AR 750-1	01 July 96, Chg 1	TM 11-5855-236-23-10	15 June 01
AR 750-43	28 November 97	TM 11-5855-263-23&P	15 September 01
DA Pam 25-33	15 September 96	TM 11-5855-264-14	15 March 93
DA Pam 25-40	01 October 97	TM 11-5855-300-10	01 December 97
DA Pam 738-750	01 August 94	TM 11-5855-300-23&P	01 December 94
DA Pam 738-751	15 March 99	TM 11-5855-299-12	01 April 94
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